

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Cal 84635			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/EP 02/03687			International filing date (d 27.03.2002	lay/month/year)	Priority date (day/month/year) 27.03.2002		
International Patent Classification (IPC) or b				nd IPC			
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Applicant		-					
PICONI,	Corra	ido ET AL.					
1. This	s intern	national preliminary exa and is transmitted to th	amination report has been e applicant according to A	n prepared by this Article 36.	International Preliminary Examining		
2. Thi	s REPO	ORT consists of a total	of 4 sheets, including thi	is cover sheet.			
⊠	beer (see	n amended and are the Rule 70.16 and Section	e basis for this report and/ on 607 of the Administrati	6r sheets containi	ription, claims and/or drawings which have ng rectifications made before this Authority der the PCT).		
These annexes consist of a total of 1 sheets.							
3. Thi	s repoi	rt contains indications	relating to the following ite	ems:			
1	\boxtimes	Basis of the opinion					
П		Priority					
111		Non-establishment of	of opinion with regard to no	ovelty, inventive s	tep and industrial applicability		
IV		Lack of unity of inve	ntion				
٧	\boxtimes	Reasoned statemen citations and explan	t under Rule 66.2(a)(ii) wi ations supporting such sta	th regard to novel atement	ty, inventive step or industrial applicability;		
VI		Certain documents	ited				
VII		Certain defects in th	e international application	ı			
VII		Certain observations	s on the international appl	ication			
Date of su	ubmissi	on of the demand		Date of completion	n of this report		
06.10.2003				29.04.2004			
Name an	d mailin	g address of the internati	onal	Authorized Officer	Subas Palances		
prelimina	_ Eu	nining authority: propean Patent Office - P		Mantine Lee	,		
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International application No.

PCT/EP 02/03687

l.	Ba	sis	of	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages							
	1-7		as originally filed						
	Clai	ms, Numbers							
	7 (pa	art), 8-19	as originally filed						
	1-6,	7 (part)	received on 13.04.2004 with letter of 07.04.2004						
2.	With lang	/ith regard to the language , all the elements marked above were available or furnished to this Authority in the inguage in which the international application was filed, unless otherwise indicated under this item.							
	The	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a translation furnished for the purposes of the international search (under Rule 23.1							
		the language of publication of the international application (under Rule 48.3(b)).							
		the language of a train Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under s).						
3.	With	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the ternational preliminary examination was carried out on the basis of the sequence listing:							
		contained in the inter	national application in written form.						
		filed together with the	e international application in computer readable form.						
		furnished subsequently to this Authority in written form.							
1		furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.						
4.	The	amendments have re	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this						
6.	Add	litional observations, i	f necessary:						

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- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-19

No:

Claims

Inventive step (IS)

Yes: Claims

1-19

Claims No:

Industrial applicability (IA)

Yes: Claims

1-19

No: Claims

2. Citations and explanations

see separate sheet

Section V

The application relates to a process comprising the application of a polymeric carrier consisting of at least one thermoplastic polymer based on polyester or copolyester to a sublimatic transfer printed paper. The aim is to obtain a sublimatic transfer paper with good transfer properties to vegetable fibres.

The closest prior art (D1: US4576610) discloses a process comprising the application of a composition <u>comprising</u> a polyester resin, a hardener, and a dye binder (among other components - see e.g. example 1) to a release paper having a layer of sublimable dye. The aim is to obtain a sublimatic transfer paper with good transfer properties to vegetable fibres.

Claim 1 differs from D1 in that the applied polymeric carrier <u>consists</u> solely of polyesteror copolyester-based thermoplastic polymer, i.e. any other components are excluded. Claim 1 as well as independent claims 14, 15, 17 and 19 are thus **novel** in the sense of article 33(2) PCT.

In view of the above, the objective problem to be solved is to provide an alternative method for obtaining sublimatic transfer papers with good transfer properties to vegetable fibres. There is no disclosure or suggestion in the prior art that by using a polyester- or copolyester-based thermoplastic polymer alone would provide viable sublimatic transfer papers for vegetable fibres. D1 teaches namely the addition of a hardener and a dye binder, which are deemed necessary for a better transfer and dye and polyester uptake; there is no teaching or any indication that would lead the skilled man to suppress those components. For the above reasons, claims 1 as well as independent claims 14, 15, 17 and 19 involve an **inventive step** in the sense of article 33(3) PCT.





10/509289 DT04 Rec'd PCT/PT0 2 3 SEP 2004

CLAIMS

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- comprising the application

 Application process of a polymeric carrier consisting of at least one thermoplastic polymer based on polyester or copolyester to sublimatic transfer printed paper.
- The process according to claim 1, characterized in that the application of the polymeric carrier to the transfer printed paper is effected by means of melting, coupling, coating or sintering.
- The process according to claim 2, characterized in that the application by melting is effected by means of bubble extrusion plants, in a flat head or in a calender.
- The process according to claim 2, characterized in that the application by coupling is effected by the cou-15 pling of a previously formed polymeric film.
 - The process according to claim 2, characterized in that the application by coating is effected by means of a rotogravure, roll revers, etc. of solutions of the polymeric carrier.
 - The process according to claim 2, characterized in that the application by sintering is effected by the sintering of powders.
- The process according to any of the previous claims, characterized in that the polymeric carrier consists of 25

